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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/691,427	10/691,427 10/22/2003		Wolfgang Wolff	H 5165 PCT/US	7828
423	7590	05/17/2005		EXAM	INER
HENKEL (ELHILO, EISA B		
THE TRIAL 2200 RENA	•		ART UNIT	PAPER NUMBER	
GULPH MI	LLS, PA	19406	1751		
				DATE MAIL ED: 05/17/2004	ξ.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/691,427	WOLFF ET AL.
Office Action Summary	Examiner	Art Unit
	Eisa B. Ethilo	1751
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun. - If the period for reply specified above is less than thirty (30) of the period for reply is specified above, the maximum statut. - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a ication. days, a reply within the statutory minimum of thi tory period will apply and will expire SIX (6) MOI II, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed	on <u>04 <i>April</i> 2005</u> .	•
·—)⊠ This action is non-final.	
3)☐ Since this application is in condition fo	• / / / / / / / /	·
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.t	J. 11, 453 O.G. 213.
Disposition of Claims		
4)	withdrawn from consideration.	
Application Papers		·
9)☐ The specification is objected to by the I	Examiner.	
	a) accepted or b) objected to	by the Examiner.
Applicant may not request that any objection		
Replacement drawing sheet(s) including the	ne correction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to b	by the Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
_ , , ,	ocuments have been received. ocuments have been received in a the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Sec the attached detailed Office action		
Attachment(s)		·
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 4/4/2005. 		(s)/Mail Date Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)



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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/4/2005 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 7-9, 11-12 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7-9, 11-12 and 14 are indefinite because the claims recite the limitation "formula (I)". There is insufficient antecedent basis for this limitation in the claims because the claims are dependent on the amended claim 1.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-5, 13, 15, 17-22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Madrange et al. (US 5,143,518) in view of Cotteret et al. (US 5,735, 908).

Madrange et al. (US' 518) teaches a hair dyeing composition comprising oxidation dye precursors (see col. 12, line 60-61), silicone polymers of dialkyl polysiloxane such as dimethyl polysiloxane as claimed in claims 1- 4 (see col. 31, claim 12) and cationic polymer such as a copolymer of dimethyldiallylammonium chloride with acrylamide (Merquat 550) as claimed in claim 13 (see col. 12, lines 38-45), amodimethicone as claimed in claim 5 (see col. 2, line 45), cationic homopolymer of dimethyldiallylammonium chloride (Merquat 100) primary intermediates (oxidation bases) as claimed in claim 15 (see col. 12, line 62-64), secondary intermediates (couplers) as claimed in claim 17 (see col. 12, lines 65-68), direct dyes (substantive dye) as claimed in claim 18 (see col. 14, line 17). Madrange (US' 518) also teaches a method for dyeing hair comprising applying to the hair the dyeing composition as described above to which there is added an oxidizing agent and the mixture is left on hair for a sufficient time and after which the hair is rinsed and dried wherein the reference's method is similar to those claimed in claims 19-22 (see col. 15, lines 50-68 and col. 16, lines 1-2).

Although Madrange et al. (US' 518) teaches a hair dyeing composition comprising homopolymers and co-polymers as described above, Madrange et al. (US' 518) does teach an amphoteric polymer as claimed. Further, Madrange et al. does not teach a two-component kit as claimed.

Cotteret et al. (US' 908) in analogous art of hair dyeing formulation, teaches a composition comprising amphoteric co-polymers of diallyldimethylammonium chloride/ acrylic acid (Merquat 280) as claimed in the instant claims (see col. 4, lines 53-54) and cationic polymer

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such as co-polymer of dimethyldiallylammonium chloride/acrylamide (Merquat 550) (see col. 4, lines 3-4). Cotteret et al. Also teaches a multi-compartment dyeing devices or kits which are similar to the claimed kit as claimed in claim 23 (see col. 2, lines 60-67).

Therefore, in view of teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of Madrange et al. (US' 518) by substituting the cationic co-polymer of dimethyldiallylammonium chloride /acrylamide (Merquat 550) with the amphoteric co-polymers of diallyldimethylammonium chloride/acrylic acid (Merquat 280) as taught by Cotteret et al. (US'908) to make such a composition with a reasonable expectation of success because the primary reference of Madrange et al. (US' 518) suggests the use of the cationic co-polymer of dimethyldiallylammonium chloride/acrylamide (Merquat 550) in hair dyeing composition. The secondary reference of Cotteret et al. (US' 908) clearly teaches the equivalence between amphoteric co-polymer of diallyldimethylammonium chloride/acrylic acid (Merquat 280) (see col. 4, lines 53-54) and cationic co-polymer of dimethyldiallylammonium chloride/acrylamide (Merquat 550) (see col. 4, lines 3-4), wherein the dyeing composition is provided in a dyeing devices or kits, and, thus, a person of an ordinary skill in the art would expect that the use of amphoteric co-polymers of diallyldimethylammonium chloride/acrylic acid (Merquat 280) in a hair dyeing composition as taught by Cotteret et al. (US' 908), would be similarly useful and applicable to the analogous dyeing composition taught by the primary reference of Madrange et al. (US' 518), absent unexpected results.

4 Claims 1, 13 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millequant et al. (US 6,312,677 B1).

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Millequant et al. (US' 677 B1) teaches a hair dyeing composition comprising silicone polymers (see col. 10, formula VI) and co-polymer of dimethyldiallylammonium chloride and acrylic acid (Merquat 280) (amphoteric polymer) as claimed in claims 1 and 13 (see col. 13, lines 44-49), oxidation dye precursors (primary intermediates), couplers (secondary intermediates), indole precursors and direct dyes as claimed in claims 1 and 15-18 (see col. 14, lines 23-42). Millequant et al. (US' 677) also teaches a similar method for dyeing hair comprising applying to the hair the dyeing composition as described above after diluted at the time of use with the oxidizing solution wherein the composition is allowed to act for a period of time and the hair is then rinsed as claimed in claim 19 (see col. 15, lines 59-64).

Although Millequant et al. (US' 677 B1) generally discloses a hair dyeing composition comprising oxidation dye precursors, amphoteric polymers and silicone polymers, the reference does not require such a dyeing composition with sufficient specificity to constitute anticipation.

However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to formulate such a dyeing composition, as taught by Millequant et al, which contained oxidation dye precursors, amphoteric polymers and silicone compounds, because such a dyeing composition falls within the scope of those taught by Millequant et al. Therefore, one of an ordinary skill in the art would have had a reasonable expectation of success, because such a dyeing composition containing oxidation dye precursors, amphoteric polymers and silicone compounds is expressly suggested by the disclosure of Millequant et al. (US' 677 B1) and therefore, is an obvious formulation.

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Conclusion

The reference listed on from 1449 has been reviewed by the examiner and is considered to be cumulative to or less material than the prior art references relied upon in the rejection above

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -5:30) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eisa Elhilo Patent Examiner Art Unit 1751

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December 9, 2004